CONTENTS, VOLUME 73, 1971

Number 1 (Spring)	
A Comparison of Functional and Morphological Adaptations in the Common Murre (Uria aalge) and Thick-billed Murre (Uria lomvia) Lowell Spring	1
Song Groups in a Singing Assembly of Little Hermits R. Haven Wiley	28
Foraging for Insects by a Tropical Hummingbird	36
Vertical Stratification of Birds in a Tropical Dry Forest	46
Responses of Male White-crowned Sparrows to Playback of Recorded Songs Jared Verner and Marilyn M. Milligan	56
The Time and Energy Budget of the Male Dickcissel (Spiza americana) R. Leigh Schartz and John L. Zimmerman	65
Correlation of Age, Size of Territory, Plumage, and Breeding Success in White- crowned Sparrows C. John Ralph and Carol A. Pearson	77
Behavior and Nesting Success Relative to Nest Location in Adélie Penguins (Pygoscelis adeliae)	81
Latitudinal Differences in the Breeding and Molt Schedules of Alaskan Red-backed Sandpipers (Calidris alpina)	93
Migration of Banded Yellow-headed Blackbirds W. C. Royall, Jr., J. L. Guarino, J. W. De Grazio, and A. Gammell	100
SHORT COMMUNICATIONS	
Ecological, Behavioral, and Distributional Notes on Some Central Panamá Birds	
James R. Karr	107
Some Fringillid Records for Texas	111
Hummingbirds Feeding on Sand	112
Unusual Predatory Activities of Mexican Jays and Brown-headed Cowbirds Under Conditions of Deep Snow in Southeastern Arizona	
Vincent D. Roth	113
Roosting Habits of White-breasted Nuthatches Lawrence Kilham	113
The 1966–67 Snowy Owl Incursion in Southeastern Washington and the Pacific Northwest W. C. Hanson	114
The Common Crow, Corvus brachyrhynchos, in the Great Basin Gerald L. Richards	116
Social Relationships Among Mountain Chickadees (Parus gambeli) Michael E. Minock	118
Preservation of Maui's Endangered Forest Birds	120
Plumage Color and EnergeticsSheldon Lustick	121
Pelagic Observations of the Japanese White-eye in the Central Pacific Charles A. Ely	122
Imperfect Albinism in a Red-tailed Tropicbird Roger B. Clapp and Lawrence N. Huber	123
NEWS AND NOTES	
THE BULLETIN BOARD	125
Number 2 (Summer)	
Breeding and Molt Schedules of the Rufous-collared Sparrow in Coastal Perú John Davis	127
Late Summer-Autumnal Breeding of the Piñon Jay in New Mexico J. David Ligon	147
Large-billed Insectivorous Birds: A Precipitous Diversity Gradient Thomas W. Schoener	154
Behavior and Population Ecology of the Burrowing Owl, Speotyto cunicularia, in the Imperial Valley of California	162
Behavior and Ecology of Burrowing Owls on the Oakland Municipal Airport Lise Thomsen	177
Springtime Movements of Transient Nocturnally Migrating Landbirds in the Gulf Coastal Bend Region of Texas	193
Inter-populational Song Dialect Discrimination in the White-crowned Sparrow Marilyn M. Milligan and Jared Verner	208

CONTENTS, VOLUME 73, 1971

Number 1 (Spring)	
A Comparison of Functional and Morphological Adaptations in the Common Murre (Uria aalge) and Thick-billed Murre (Uria lomvia) Lowell Spring	1
Song Groups in a Singing Assembly of Little Hermits R. Haven Wiley	28
Foraging for Insects by a Tropical Hummingbird	36
Vertical Stratification of Birds in a Tropical Dry Forest	46
Responses of Male White-crowned Sparrows to Playback of Recorded Songs Jared Verner and Marilyn M. Milligan	56
The Time and Energy Budget of the Male Dickcissel (Spiza americana) R. Leigh Schartz and John L. Zimmerman	65
Correlation of Age, Size of Territory, Plumage, and Breeding Success in White- crowned Sparrows C. John Ralph and Carol A. Pearson	77
Behavior and Nesting Success Relative to Nest Location in Adélie Penguins (Pygoscelis adeliae)	81
Latitudinal Differences in the Breeding and Molt Schedules of Alaskan Red-backed Sandpipers (Calidris alpina)	93
Migration of Banded Yellow-headed Blackbirds W. C. Royall, Jr., J. L. Guarino, J. W. De Grazio, and A. Gammell	100
SHORT COMMUNICATIONS	
Ecological, Behavioral, and Distributional Notes on Some Central Panamá Birds	
James R. Karr	107
Some Fringillid Records for Texas	111
Hummingbirds Feeding on Sand	112
Unusual Predatory Activities of Mexican Jays and Brown-headed Cowbirds Under Conditions of Deep Snow in Southeastern Arizona	
Vincent D. Roth	113
Roosting Habits of White-breasted Nuthatches Lawrence Kilham	113
The 1966–67 Snowy Owl Incursion in Southeastern Washington and the Pacific Northwest W. C. Hanson	114
The Common Crow, Corvus brachyrhynchos, in the Great Basin Gerald L. Richards	116
Social Relationships Among Mountain Chickadees (Parus gambeli) Michael E. Minock	118
Preservation of Maui's Endangered Forest Birds	120
Plumage Color and EnergeticsSheldon Lustick	121
Pelagic Observations of the Japanese White-eye in the Central Pacific Charles A. Ely	122
Imperfect Albinism in a Red-tailed Tropicbird Roger B. Clapp and Lawrence N. Huber	123
NEWS AND NOTES	
THE BULLETIN BOARD	125
Number 2 (Summer)	
Breeding and Molt Schedules of the Rufous-collared Sparrow in Coastal Perú John Davis	127
Late Summer-Autumnal Breeding of the Piñon Jay in New Mexico J. David Ligon	147
Large-billed Insectivorous Birds: A Precipitous Diversity Gradient Thomas W. Schoener	154
Behavior and Population Ecology of the Burrowing Owl, Speotyto cunicularia, in the Imperial Valley of California	162
Behavior and Ecology of Burrowing Owls on the Oakland Municipal Airport Lise Thomsen	177
Springtime Movements of Transient Nocturnally Migrating Landbirds in the Gulf Coastal Bend Region of Texas	193
Inter-populational Song Dialect Discrimination in the White-crowned Sparrow Marilyn M. Milligan and Jared Verner	208

Body Temperatures of Petrels	John Warham	214
Observations on the Jabiru and Maguari Storks in Argentina, 1969		220
Nesting and Movements of Canada Geese on the Snake River in W James L. Culbertson, Larry L. Cadwell, and	ashington	230
SHORT COMMUNICATIONS		
Quaternary Avian Remains From Dark Canyon Cave, New Mexi	co egarde Howard	237
Notes in the Use of Desert Springs by Birds in California Michael Smyth and Harr.		240
An Age Differential of Migrants in Coastal California		243
Exploitation of Nectar Resources by Hummingbirds, Bees (Bon Diglossa baritula and Its Role in the Evolution of Pensten David L. Lyon and C.	nbus), and non kunthii	246
An Early Pleistocene Eagle From Nebraska L		248
Notes on the Breeding of the Sulphur-bellied Flycatcher in Ariz	zona J. David Ligon	250
Further Notes on Costa Rican BirdsRobert		252
Herring Gull Attacks Eared Grebe Jan		253
Nesting Record of European Skylark in Washington State Terence R. Wahl and Hou		254
Occurrence of the Xantus' Murrelet off the Oregon Coast		
J. Michael Scott, John Butler, William G. Pearcy, and Gere	ara A. Bentrana	254
NEWS AND NOTES		255
THE BULLETIN BOARD		257
Number 3 (Autumn) Behavioral Characteristics of Serpophaginine Tyrannids		259
Flocking and Annual Cycle of the Piñon Jay, Gymnorhinus cyanoce	phalus	259
Russell P. Balda and Ge		287
Song Variations and Singing Behavior in the Rufous-sided Towhee erythrophthalmus oregonus		303
Feeding Activity and Color Preference of Ruby-throated Hummingbi Richard S. Miller and Richa		309
Temperature Relationships and Nesting of the Calliope Hummingbi	ird lliam A. Calder	314
New Records and Zoogeographical Notes on the Birds of St. La Bering Sea	awrence Island,	022
Miklos	D. F. Udvardy	322
Breeding Biology of a Small Colony of Western Gulls (Larus occide in California	irles A. Harper	337
Man's Influence on Hybridization in Two Avian Species in South D Berti	akota n W. Anderson	342
Vocal Behavior of the Great-tailed Grackle (Quiscalus mexicanus	prosopidicola) O. B. Kok	348
SHORT COMMUNICATIONS		
Water Deprivation and Use of Sodium Chloride Solutions by V	esner Sparrous	
(Pooecetes gramineus) Robert D. Ohmart and E.	Linwood Smith	364
	Allen M. Young	367
Shell Thinning in Eggs of the Common Murre, Uria aalge, Fr Farallon Islands, California	om the	
Franklin Gress, Robert W. Risebrough, and	Fred C. Sibley	368
Food Habits of the Starling in Eastern Texas De		369
Wandering Interspecific Flocks in Relation to Ant-following I Brazil		372
No Evidence for Incubation Patch Changes in Mourning Do Reproduction Brian Maridon and Lar		374
The Status of Carpodacus mcgregori Jose		375

	A Technique for Performing Laparotomy on Small Birds Athur C. Risser, Jr.
	Important Birds From Blue Point Cottonwoods, Maricopa County, Arizona R. Roy Johnson and James M. Simpson
	Spruce Grouse Copulation Harold J. Harju
	Post-Breeding Nest Cavity Defense in Purple Martins J. C. Finlay
	Pellet Regurgitation by Captive Sparrow Hawks (Falco sparverius) Thomas G. Balgooyen
	First Nesting Record for the Frigatebird (Fregata minor) in the Main Hawaiian Islands Robert J. Shallenberger and J. Peterson Myers
	NEWS AND NOTES
	THE BULLETIN BOARD
VU	MBER 4 (Winter)
	Experiments on Homing in Laysan Albatrosses, Diomedea immutabilis Harvey I. Fisher
	Color Variation in the Crown of the White-throated Sparrow, Zonotrichia albicollis Linda E. (Donaldson) Vardy
	Seed Selecton in Some North American Finches Mary F. Willson
	Comparative Temperature and Moisture Responses in Gambel and Scaled Quail Carl W. Henderson
	Nutritional Aspects of the Diet of Spruce Grouse in Central Alberta B. A. Pendergast and D. A. Boag
	The Breeding Biology of the American Avocet (Recurvirostra americana) in Central Oregon ————————————————————————————————————
	On the Occurrence of Easern Wood Warblers in Western North America George T. Austin
	Golden Eagle Population Studies in the Southwest $Erwin\ L.\ Boeker\ {\it and}\ Thomas\ D.\ Ray$
	SHORT COMMUNICATIONS
	Cutaneous Water Loss in Small Birds
	Cutaneous Water Loss in the Roadrunner and Poor-will Robert C. Lasiewski, Marvin H. Bernstein, and Robert D. Ohmart
	Lean-Season Fat in a South American Population of Black-necked Stilts Raymond McNiel
	Predation by a White-tailed Hawk and a Harris Hawk on a Wild Turkey Poult Harry H. Haucke
	Three Additional Specimens of the Eared Poor-will From the State of Guerrero, México Keith A. Arnold
	The Mississippi Kite in Arizona
	Census of the Birds of Clipperton Island, 1968 Jean P. Ehrhardt
	A Note on Foraging Overlap in Winter Birds of Deciduous Woods Mary F. Willson
	Bird Records From West New Britain
	High Nest Density and Non-random Nest Placement in the Cedar Waxwing Stephen I. Rothstein
	Tongue Structure of the Sunbird Hypogramma hypogrammica Frank B. Gill
	Horned Grebe Specimen From Arizona Lawrence N. Huber
	Identification of Diomedea leptorhyncha Coues 1866, an Albatross with Remarkably Small Salt Glands George E. Watson and George J. Divoky
	A Specimen of Jouanin's Petrel From Lisianski Island, Northwestern Hawaiian Islands Roger B. Clapp
	Prairie Falcons and Red-tailed Hawks Rearing Young in Inactive Golden Eagle Nests
	Two Hybrid Sage Grouse \times Sharp-tailed Grouse From Central Montana Robert L. Eng
	NEWS AND NOTES
	THE BULLETIN BOARD
	INDEX TO VOLUME 73

